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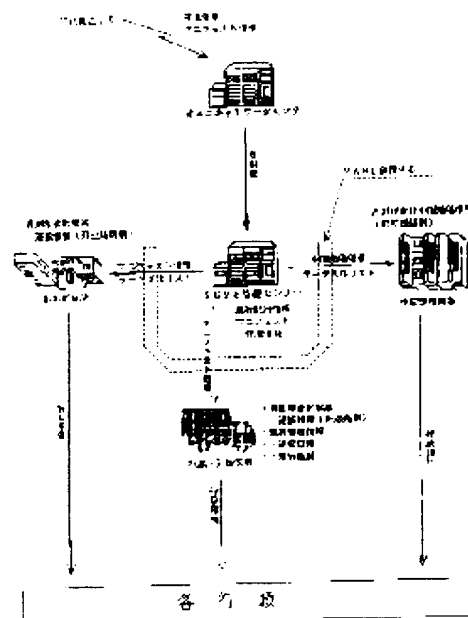
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(54) WASTE DISPOSAL INFORMATION SYSTEM USING COMMUNICATION SATELLITE

(57)Abstract:

PROBLEM TO BE SOLVED: To control the waste disposal among a waste producer, a waste collecting and carrying person, and an intermediate waste disposal person by collecting the information relating to the flow of waste disposal using a communication satellite.

SOLUTION: A waste discharge plant establishes codes by waste production sources to be controlled and distributes bar codes to each of the waste production sources. A waste collecting and carrying person, when collecting waste, reads the bar code of each waste container with a bar code reader and measures the weight of each container and inputs these data in the terminal of a communication satellite. An intermediate disposal person, when receiving the waste collected and carried, reads the bar code of each waste by solid waste with a bar code reader, and when executing intermediate disposal of the waste stored, reads the bar code again, and transmits the information to a system. A control center receives the data input, when the waste collecting and carrying person collects the waste, from the communication satellite and takes the data input by the intermediate disposal person when carrying and disposing. An executive agency receives the information at the time when the waste collecting and carrying person collects the waste from a communication satellite, and takes the information of the waste which has been received and disposed by the intermediately disposing person, and if any inconformity is found in the waste when checked, the control center directs the related persons to confirm it. The executive agency controls the information from the system of the control center by



connecting the executive agency and the control system on the ground through the on-line information processing system.

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CLAIMS

[Claim]

[Claim 1] By collecting informations using satellite communication, flowing of a waste treatment An issue entrepreneur, It is the waste-treatment information system which enables a management of the waste treatment between a capture transport industry company and an interval processor, creates a required information quickly and offers it from the collected informations. The waste-treatment information system which used the communication satellite characterized by using combining the load detailed cut-form in which a required matter is written down based on the related information containing this bar code inputted into the terminal of a bar-code label and a communication satellite.

[Claim 2] The waste-treatment information system which used the communication satellite of the claim 1 which is a label for giving the container for special managed eccrisis or dolly which displayed the bar code to which a bar-code label expresses the data about the capture location and the occurrence location beforehand.

[Claim 3] The waste-treatment information system which used the communication satellite of a claim 2 which inputs the container ****ed with the information on a bar code, or the data of the weight for every dolly.

[Claim 4] The waste-treatment information system which used the communication satellite of claims 1, 2, or 3 with which a bar-code label displays the mark of the purport which is the managed eccrisis specially near the above-mentioned bar code.

[Claim 5] The waste-treatment information system which used the communication satellite of the claim 4 which is the mark which displays the purport whose mark of the purport which is the managed eccrisis specially is the infectivity eccrisis.

[Claim 6] The waste-treatment information system which used the communication satellite of the claim 5 whose mark of the purport which is the managed eccrisis specially is a biohazard mark.

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DETAILED DESCRIPTION

[Detailed description]

[0001]

[Field of the Invention] this invention relates to the capture abandonment processing information system (SCMS system) which gives a bar code to the container which enclosed the managed eccrisis specially especially, or the loaded dolly in detail about the waste-treatment information system which used the communication satellite which pursues the process from recovery of the managed eccrisis to transport and processing, and is recorded specially, and was made to carry out the individual management of capture of the eccrisis to the abandonment processing for every container or dolly.

[0002] As an outline is indicated to be SCMS system (for SCMS to be abbreviation of Satellite Communication Management System) to drawing 1 in this invention, the system aiming at enabling a management of the waste treatment between an issue entrepreneur, a capture transport industry company, and an interval processor, creating a required information quickly and offering it from the collected informations, is said by collecting informations for flowing of a waste treatment using satellite communication.

[0003] In this invention, vocabulary called the managed eccrisis is specially used in the meaning not only including the domestic wastes with a possibility of producing damage in the health of men, such as explosivity, toxicity, and an infectivity, and a living environment, or industrial waste but the domestic wastes or the industrial waste to which it generates in large quantities and the abandonment has great influence on environmental pollution. Although an explanation of this invention mentions as an example the infectivity eccrisis mainly discharged from a medical institution and explains it as managed eccrisis specially, it cannot be overemphasized [the following and] by that this invention is completely applicable similarly to all other special managed eccrisis.

[0004]

[Prior art] It is obliged by law to process the eccrisis from the infirmity with a possibility that disease germs, such as gauze with a used hypodermic needle and the sanguis, may spread apart from the common eccrisis. However, neither time nor a cost mixes such a thing with a dislike and domestic wastes, or the case abandoned as it is does not sever the back. Moreover, it is difficult to generate at once the scrap wood generated in a construction site in large quantities, and to secure the disposal-field place, and the problem of illegal abandonment has arisen.

[0005] The technique which capture and a transport industry company bring to an interval processor is masses, and flowing of processing of the infectivity eccrisis performed now is bisected by the contractor who performs capture, transport, and interval processing by batch. Although all are performed with the gestalt (between 3 persons and between 2 persons) of each contract, about the content, it is various. Although an eccrisis cleaning method is more newly than July 1, Heisei 5 enforced and the load detailed cut-form (it may be hereafter called a manifesto cut-form) is used legally, many statuses that employment in an actual site cannot slip out of the frame of positioning of the conventional invoice are seen.

[0006] Moreover, also in an issue place of business, there is status that the consciousness of handling of the infectivity eccrisis has not transformed itself from the field of old industrial waste

or domestic wastes. The infectivity eccrisis discharged from a place of business has not come out of the region of a way which was referred to as being what yen and to catch to the moon. A disposal cost pays and they are many [in value] cheap few thing criteria with a high disposal cost. At such a dimension, proper processing of the infectivity eccrisis is impossible. When it becomes being at it, even if it is going to manage abruptly processing of the infectivity eccrisis which developed from old dust disposal on the basis of data, such as a real weight for every generation source, it is problems how the data should be accumulated and who who is where and has such data how. Although a certain amount of data are obtained by introduction of a manifesto cut-form this time, it is an issue place-of-business unit to the last, and it is very difficult when it becomes the real weight of a generation source and the infectivity eccrisis.

[0007]

[Object of the Invention] this invention tends to offer the infectivity waste-treatment information system which can manage the infectivity eccrisis for every generation source of an issue place of business by the real weight. By using this system, data utilizable for fractionation of the infectivity eccrisis and the management on suppression of a discharge and the management of an issue place of business and the data for an administration report are offered, and a positional information can be grasped on a map on real time (finishing [Present where / carrying in under transport and to a processing plant], a positional information, a transport path of a processing end, etc.) the solid-state exception (a container or dolly) of the infectivity eccrisis of the generation source unit of an issue place of business. Thereby, it is going to solve problems, such as illegal abandonment.

[0008] Specially, the managed eccrisis may affect a human body and an environment and should be processed certainly and proper altogether. The special managed eccrisis including medical waste has put on the processing root of the exclusive use which was distinguished from other common eccrisis and which was managed particularly conventionally, and the waste control is performed the thing for which the delivery number of an enclosure container is checked in the case of capture and transport, or by checking the things generated in large quantities at once, such as scrap wood generated in a construction site, per dolly.

[0009] For example, by the exclusive cut-form which are the occurrence location and the capture location and which was indicated for every infirmity, although the number of an enclosure container is collated per capture location in each with the time of taking out from the capture location, and carrying in to an abandonment treatment facility Since flowing of each enclosure container cannot be grasped in a number management of the group unit by the cut-form, For example, it may be difficult to discover this according to intentionally or negligence, in the middle of conveyance, at the time of collating, though the container which enclosed the special managed eccrisis which should be carried out abandonment processing replaces another container which held other common eccrisis etc. When processing [un-fitness abandonment / loss of an enclosure container, illegal abandonment, etc.] based on the mistake at the time of the above conveyances is decreased and a mistake arises, it has been a technical problem to carry out the individual management which is reliable to the enclosure container or loading dolly of the managed eccrisis specially so that this may be detected correctly and it can be coped with quickly.

[0010] this invention gives a bar code to the information system which pursues the process from recovery of the managed eccrisis to transport and processing, and is recorded, the container which enclosed the managed eccrisis specially especially, or the loaded dolly specially under such status. It expires that it is the managed eccrisis specially by displaying preferably the mark of the purport which is the managed eccrisis specially near the above-mentioned bar code, and it changes into the kana status. It is going to offer the capture abandonment processing information system which was made to carry out the individual management of capture of the eccrisis to the abandonment processing for every container or dolly.

[0011]

[The means for solving invention] this invention flowing of a waste treatment by collecting informations using satellite communication A management of the waste treatment between an issue entrepreneur, a capture transport industry company, and an interval processor is enabled.

It is the waste-treatment information system which creates a required information quickly and offers it from the collected informations. It is the waste-treatment information system which used the communication satellite characterized by using combining the load detailed cut-form in which a required matter is written down based on the related information containing this bar code inputted into the terminal of a bar-code label and a communication satellite. Briefly, this invention is the special management waste-treatment information system which used the communication satellite which combines the load detailed cut-form in which a required matter is written down based on the related information containing this bar code inputted into the terminal of a bar-code label and a communication satellite, and is characterized by things.

[0012] In order to solve the above-mentioned technical problem, this invention the bar-code label which displayed the data about the capture location and the occurrence location beforehand Before giving individually two or more containers or dollies which held the managed eccrisis specially in the capture location and recalling and taking out the container or dolly of these pluralities from the capture location, in the capture location the data of the bar-code label given to each container or dolly -- a bar code reader -- every container -- or it reads for every dolly, every container and the weight for every dolly are ****ed, and these informations are inputted into the terminal of a communication satellite

[0013] The load detailed cut-form (manifesto cut-form) filled in in the required matter based on the information on this bar code inputted into the terminal of a communication satellite is received, it is automatic and the run information on between [at the time of a start to the time of warehousing] is recorded through a communication satellite. The operation managerial system of the Omni trucks, such as a record of a positional information and a run path and an automatic creation of stream-day news, can be employed.

[0014] After carrying out interval disposal plant place ** conveyance of two or more containers or dollies from the capture location, an interval processor is the location, reads again the data of the bar-code label given to each container or dolly, and transmits to a manifesto managerial system with the information at the time of a processing date. It stores temporarily until it performs interval processing in the works. When performing interval processing for the special eccrisis containing the saved infectivity eccrisis, the information at the time of a reading processing date is again transmitted for a bar code to a manifesto managerial system.

[0015] If data [finishing / carrying in and interval processing / from the data and the interval processor at the time of capture and a transport industry company collecting] are received from a communication satellite about each container or dolly, the data of capture, carrying in, and processing are checked and there is nonconformance, it will print out and will direct to perform upper authentication of connection to a related contractor.

[0016] The above-mentioned bar-code label is a label for giving the container for special managed eccrisis or dolly which displayed the bar code which expresses the data about the capture location and the occurrence location beforehand. The container ****ed with the information on the above-mentioned bar code or the data of the weight for every dolly can be inputted. What displayed the mark of the purport which is the managed eccrisis specially near the above-mentioned bar code as the above-mentioned bar-code label is desirable. The mark of the purport which is the managed eccrisis specially is a mark which displays the purport which is the infectivity eccrisis, and is a biohazard mark preferably. The matter which it should be careful of in the purport [which is the infectivity eccrisis], and handling case is to be displayed on the transport container which contained the infectivity eccrisis. The biohazard mark is recommended as a mark common to the whole country.

[0017] In order to utilize the special management waste-treatment information system which used the communication satellite, in case an infirmity takes out the medical-application eccrisis, I have a capture container crawl on the seal of the bar code which recorded an infirmity name, affiliation, etc. A recovery vehicle is equipped with the reader of a bar code, and data are recorded whenever it stacks a capture container. Also during transport, the position of a recovery vehicle is checked with satellite communication every 30 minutes, and the bar code of a capture container is again recorded at the time of carrying in to an interval processing plant, and a completion of disinfection, incineration, etc.

[0018] Data are altogether recorded to a large-sized computer through a communication satellite, and are reported to an infirmary, or capture and a processor. Since it understands immediately if a capture container is lost on the way or a doubtful motion is in a recovery vehicle, illegal abandonment can be prevented. Moreover, it is easy to carry out an operation management, and capture can also be made efficient. The medical waste with risk of starting virus infection etc. is set to carry out a ultimate disposal, after destroying by fire in disinfection and losing an infectivity in distinction from domestic wastes. The management vote called manifesto to the eccrisis is attached, an infirmary and a contractor check, and proper processing is checked.

[0019] Actually, medical waste is mixed with domestic wastes, and is processed, and it is expected that there is also an example with which it is made consistent by the false management vote. Reliance of an infirmary is obtained by the ability of proper processing to be performed certainly.

[0020] It explains with what role the special management waste-treatment information system which used the communication satellite functions in administration according to an issue place of business, capture and a transport industry company, an interval processor, a management pin center, large (refer to a satellite system introduction business firm and an example SCMS management pin center, large), and the need.

1. The infectivity eccrisis in a generation source can be classify by manage the discharge for every generation source in an issue place of business using the combination of a load detailed cut-form as which a required matter is fill in based on the related information containing this bar code inputted into the terminal of the bar-code label by which it is characterize [of an issue place-of-business this invention] , and a communication satellite , and , moreover , the numerical management its post exception and by the content can be more classify to an authenticity by the real weight . By the ability of the management by one's post to be performed, the usual dust currently mixed in the present infectivity eccrisis will be classified, and it contributes to suppression of the infectivity eccrisis. It can utilize for the budget creation for every occurrence post of its of the House in the ability of the numerical management by its post to be performed, and contrast of an infectivity waste-treatment cost etc. can be ensured its post option top of an issue place of business. Since the status of the infectivity eccrisis of having commissioned to processing can be held by the infectivity eccrisis handed over on real time being by the solid-state where, or when it was handed over by the processing plant, when processing was performed [under conveyance of where,], or where it is piling up being able to take control after an issue place of business hands over the infectivity eccrisis to capture and a transport industry company, the care and custody as an issue place of business can fully be achieved.

[0021] It can use for a creation of an administration report for the year [, such as taking out and posting data required for an administration report from the information which can be taken out from this system of a series of,]. It can apply within present processing consignment expense also about a processing cost. Where it was saved for five years, when specifying the date and the vehicle code, capture / transport vehicle dropped in when and where, and the back data of the above information passed through where, and carried in to the processing plant carries out on a map by building the system which can specify a track and time, and it can prevent illegal processing and unsuitable processing which include illegal abandonment as issue place-of-business responsibility.

[0022] 2. The same infectivity eccrisis as capture and a transport industry company issue place of business is manageable. Moreover, since a management will be performed by the solid-state if a highly poisonous substance and a detrimental object may be accidentally mixed into the infectivity eccrisis in a generation source, a generation source is specified and explosion accident, gassing accident, etc. can be prevented, and it is illegal issue (for example, case where the reagent of mercury etc. is mixed in the infectivity eccrisis.) of an issue place of business. now, an issue place of business specifies -- not having -- it is prevented Moreover, by the ability of a track to be periodically recorded automatically for a positional information through a communication satellite from a transport vehicle, when an operation management can be

performed, stream-day news is automatically created from a system, and there is an advantage which can perform a management and laborsaving of the personnel. The status tracking of a site and laborsaving of a management section can be achieved by the ability of connection to carry out at any time through a satellite with the personnel who perform capture and transport, and capture and the efficiency of materials handling improve.

[0023] 3. The same infectivity eccrisis as an interval processor issue place of business, and capture and a transport industry company is manageable. Although the contract between 2 persons with an issue place of business, capture and a transport industry company, and an interval processor has come to carry out now Although capture and a transport industry company do business, an issue place of business (new customer) is unearthed, a contract is carried into the interval processor of a cooperator and the contract between 2 persons is performed by capture and transport industry company initiative In order to cut down an interval disposal cost although a problem does not arise at all if capture and a transport industry company carry into an interval processor the whole quantity collected and carried The problem which repacks the infectivity eccrisis collected and carried in our company (for example, the technique of compressing two pieces into one piece and repacking them, the technique of mixing in domestic wastes, and doubling, and *****ing and bringing to a public incineration treatment facility), and is performing illegal processing is solvable.

[0024] 4. Adoption becomes possible about holding the trend of the infectivity eccrisis of an issue place of business, capture and a transport industry company, and three persons of an interval processor on accuracy and real time as administration administration. Since this system can be made to dock with the ground managerial system under research and development in the present public engine, the check of the report to the administration of each issue place of business can also be performed easily, and can perform a management of illegal abandonment of each place of business as an administration side, illegal processing prevention, etc., laborsaving of the check of monitoring and three persons, and an exact management. The present condition is being unable to check, unless comparing and managing the sent report data's from each place of business performed now about presentation of the administration report of every year a duty of is furthermore imposed to each place of business (an issue place's of business, capture and a transport industry company's, interval processor's) has a much problem. It is impossible to attain the purpose of an original administration report. Moreover, if the space which will save the administration report sent by the file for five years, and the cost of reference are considered, the merit which data-izes an administration report and saves it has what is not measured and found. The laborsaving of this is [the administration with much authorization number of cases, and the administration with many issue places of business] possible.

[0025]

[Example] Hereafter, the one example explains this invention in detail. In the following explanations, although aimed at the infectivity eccrisis discharged from a medical institution, this invention cannot be overemphasized by that it is completely applicable similarly to all other special managed eccrisis.

[0026] The use mode of the special management waste-treatment information system which used example 1 communication satellite is explained.

The outline of the operating flow of an issue place-of-business issue place of business is shown in drawing 2 .

1. Set Up Code by Generation Source to Manage (Order is Received from Issue Place of Business, and Bar Code is Created and Delivered for Every Management Department Place).
2. Distribute a bar code to a generation source. It considers as the label with which being aimed at the infectivity eccrisis displays the mark which displays that it is clear as a bar code side by side.
3. [0027] Which Performs and Saves Move of the House in Archive Warehouse when Infectivity Eccrisis Fills Bar-Code Label with Generation Source for Every Container at Pasting 4. Container The outline of the operating flow of capture, transport industry company capture, and a transport industry company is shown in drawing 3 .

1. It is reading for every container at a bar code reader at the time of fixed capture 2. capture.

3. Input Information on 2 and 3 into Terminal of Measurement 4. Communication Satellite of Weight for Every Container (Handy Terminal).

5. It is automatic and record the run information on between [at the time of a receipt 6. start of a manifesto cut-form to the time of warehousing] through a communication satellite. The operation managerial system of the Omni trucks, such as a record of a positional information and a run path and an automatic creation of stream-day news, can be employed.

7. When there is an incongruent connection of capture and transport, and carrying in from a management pin center,large, check at an issue place of business or our company, and solve a cause.

[0028] The outline of the operating flow of an interval processor interval processor is shown in drawing 4 .

1. It is reading at a bar code reader by the solid-state about the infectivity eccrisis carried in at the time of carrying in of capture and a transport industry company.

2. Store temporarily until it performs interval processing in the works.

3. When performing interval processing for the saved infectivity eccrisis, transmit the information at the time of a reading processing date for a bar code to a system again.

4. When there is an incongruent connection from a management pin center,large, check at capture and a transport industry company, or our company, and correct data.

5. The persons concerned can be provided with a vehicle operation management data.

[0029] Management pin center,large (a satellite system introduction business firm, drawing 1 , and SCMS management pin center,large of drawing 6)

The outline of the operating flow (manifesto) of a management pin center,large is shown in drawing 5 , and the outline of an operating flow (operation management) is shown in drawing 6 .

1. Receive the data at the time of capture and a transport industry company collecting from a communication satellite.

2. Incorporate data [finishing / carrying in and interval processing] from an interval processor.

3. If the data of capture, carrying in, and processing are checked and there is nonconformance, it will print out and will direct to perform upper authentication of connection to a related contractor.

When authentication of 4.3 cannot be performed, the administration or the issue place of business of jurisdiction is connected with, and a cause is clarified by the persons concerned.

[0030] Administration (a country, all prefectures)

1. From the system of a management pin center,large, the information on the infectivity eccrisis is connected a ground managerial system and on-line, and a management of the actual condition of capture and transport, and interval processing can be performed on real time.

2. Since it can carry out certainly [a management of the infectivity eccrisis], and easily, there is no need for presentation of an administration report, and the simplification of business is possible.

3. If there is no administration report from an issue place of business and a processing business firm, an archive of a report is unnecessary and simplification of business can be attained.

4. The check of the manifesto of the issue place of business and contractor who are hardly carrying out now can perform easily, and simplifications, such as an archive of an administration report and a management, can be attained.

[0031] Facility device 1. **** facility (per capture / transport vehicle)

a **** communication device, GPS **** system handy terminal, and a bar code reader 2. pin center,large -- PC operation management general-purpose software (JQTRACS) for JQTRACS for facility (for JQTRACS)-management business firms

An exclusive terminal FEP distribution control-routine interface and a communication software data input screen customize JQTRACS change ground system communication equipment (communication with the Yokohama network pin center,large)

3. Interval Processing-Plant Facility Communication Device, GPS **** System Handy Terminal, and Terminal Only for Bar Code Reader Communication Adapters (Total of One Set Each, Two Sets [At the Time / At the Time of Works Carrying in / of ** and Interval Processing **])

[0032] The functional specifications of a personal digital assistant are explained among the ****

devices which perform the capture and management of the eccrisis in example 2 personal-digital-assistant functional-specifications SCMSystem. The configuration of a **** device is shown in drawing 7 . Except a personal digital assistant, it is always carried in the vehicle and each function is as follows.

GPS Antenna: Receive a signal from GPS satellite and transmit the positional information of a vehicle to satellite communication equipment.

Satellite-communication Antenna: Transmit and receive with a communication satellite.

Satellite-communication Control-unit: Control the two-way communication with a communication satellite.

**** Display Terminal: Display the information from a personal digital assistant, and the operation information from a vehicle, and transmit to a satellite communication control unit. Moreover, the transmit information from a command office (office) is displayed.

Personal-digital-assistant Communication-device: Transmit the information from a personal digital assistant to a **** display terminal.

Personal-digital-assistant (BHT, bar-code handy terminal): Collect the various informations on the eccrisis (capture, carrying in, processing, etc.), and transmit to a personal digital assistant communication device. The functional description of a personal digital assistant is shown in Table 1.

[0033]

[Table 1]

機能	概要
業務の選択	担当する業務の機能を選択する。
情報の入力	バーコード又はキーにより、担当者コード、マニフェスト伝票情報及び廃棄物の情報（荷姿、性状、重量、作業区分）、車両の情報（衛星通信制御装置のID）を入力する。
情報の集計	収集した廃棄物情報の内個数、重量の合計を、各業務の用途に合わせて表示する。
転送	入力した情報を携帯端末通信装置に一括転送する。
消去	一括転送後の情報を自動的に消去する。

[0034] Each function of Table 1 is explained.

When the start: "PW" key of a selection (1) display item display of business is depressed, after inputting the number of the business a display does whose end: setup with a ten key, when "ENT" key is depressed, the business name by which method: selection of a display was done carries out inverse video. [of the personal digital assistant before new use]

The screen image on a personal digital assistant is shown in drawing 8 .

(2) Depress "ENT" key after inputting the business which carries out an operation item setup with a ten key.

(3) Others The capture which what operates a work-definition: vehicle ** vehicle performs, transshipment, taking-out business Business which archive persons in charge (manager), such as an archive ** warehouse, perform Business which the carrying-in person in charge (manager) of a carrying-in ** processing plant performs Business which the processing work-responsibility person (manager) of a processing ** processing plant performs After the operating setting defined which the carrying-in person in charge (manager) of the last ** wrapup works performs holds a setup until operation of change is made.

If the change: "PW" key of a setup is depressed, a "person-in-charge input-by-code screen" (drawing 9) is displayed, and a password ("3738") will be depressed with a ten key, pushing "SF" key, while it has been the screen. Then, since an "operating selection screen" (drawing 8) is displayed, the number of request business is inputted with a ten key. A manager sets up operation before new use.

[0035] When the start: "PW" key of an informational input 1. person-in-charge input-by-code (1) display item display is depressed, or when a "person-in-charge" key is depressed and "ENT" key is depressed after inputting an applicable number with a ten key to the end:input area of a display, the value the display did whose method:input is displayed by the left-justify (5 figures). The screen image on a personal digital assistant is shown in drawing 9 .

(2) Depress "ENT" key after inputting an applicable number (5 figures) with a ten key to an operation item input area.

(3) In addition, when fewer than an applicable number of digits, use [0] for ****, and display by 5 figures. (example . 00123) . Moreover, when it inputs mostly, a part to have overflowed is not received, but an audible tone is sounded in that case. The input of both a bar code and a ten key is possible for an input. The value inputted last time is memorized and displayed until it inputs newly. If it is the value and identity (the person in charge is the same) which were inputted last time, it will decide by depressing "ENT" key. Since a "person-in-charge input-by-code screen" (drawing 9) will be displayed if a "person-in-charge" key is depressed when it has noticed having mistaken after defined, an again exact number is inputted. Moreover, it is updated by the newest input value in that case.

[0036] 2. In the mode of vehicle business after choosing [1:vehicle] by start [of a selection (1) display item display in the mode]: "an operating selection screen" (drawing 8) On a "person-in-charge input-by-code screen" (drawing 9), with a ten key to an input area After inputting an applicable number, When "ENT" key is depressed after inputting the number of an end:request of a display with a ten key, when "ENT" key is depressed and a "person-in-charge" key is depressed, the screen image on the personal digital assistant in which the number of which method:selection was done and business name of a display carry out inverse video is shown in drawing 10 .

(2) Depress "ENT" key after inputting the business which carries out an operation item setup with a ten key.

(3) Others Business which collects eccrisis from a work-definition:capture ** issue contractor Operating taking-out ** ** which transships the eccrisis in case a transshipment ** transport vehicle is changed After **** or the operating setting defined taken out from a processing plant holds a setup until work of change is made.

"ENT" key is depressed after choosing other modes in change [of a setup]: "a mode selection screen" (drawing 10).

[0037] 3. Choose [1:Vehicle] by Start [of Input Screen 1(1) Display Item Display]: "Operating Selection Screen" (Drawing 8). And when "ENT" key is depressed after choosing [1:capture] on a "mode selection screen" (drawing 10), Or when a "input" key is depressed, or when a "style-of-pacing" key is depressed, it inputs into the input area of a manifesto cut-form number and a style-of-pacing code by the bar code by end [of a display]: "the input screen 1" (drawing 11). When "ENT" key is depressed after an input with a ten key, or when a "person-in-charge" key is depressed, a display a method:input or when "the input screen 1" (drawing 11) is displayed after depressing a display "style of pacing" key for the value carried out by the left-justify Cursor moves to the input area of a style-of-pacing code, and it will be in the status of the waiting for an input. Moreover, a manifesto cut-form number memorizes and displays the value inputted before in that case. The screen image on a terminal is shown in drawing 11 .

(2) Input an applicable number (manifesto number:10 figure, style-of-pacing code:2 figure) into an operation item input area with a bar code or a ten key. It is decided, when it inputs by the bar code and it is read. Moreover, it is decided, when it inputs with a ten key and "ENT" key is depressed. Moreover, it is also possible to move cursor by "**" and "**" key.

[0038] 4. Choose [1:Vehicle] by Start [of Input Screen 2(1) Display Item Display]: "Operating

Selection Screen" (Drawing 9). And [1:capture] is chosen on a "mode selection screen" (drawing 10). After choosing [1:each time weight input] on a "weight input selection screen" (drawing 12), When "ENT" key is depressed, it inputs into the input area of a hazard mark number and a weight by the bar code by end [of a display]: "the input screen 2" (drawing 13). Or when "ENT" key is depressed after an input with a ten key and a "person-in-charge" key is depressed, a display weight can be displayed to 1 figure of decimal point in the value the display did whose method:input at a left-justify. Moreover, a display after inputting by the integral value displays the value of 1 figure of decimal point as 0 (example . input:1 -> display:1.0). When it inputs by the bar code and it read and decides, it displays on a screen. When all the input areas on a screen are cleared and it changed into the status of the waiting for the following input, when deciding a weight by "ENT" key, and deciding a weight by the trigger key of a bar code (when the following hazard mark is read by the bar code), by displaying the value of the following hazard mark on the input area of a hazard mark, the input area of a weight is cleared and will be in the status of the waiting for an input. The screen image on a personal digital assistant is shown in drawing 13 .

(2) Input into an operation item input area an applicable number (hazard mark number : example [of a maximum of 5 figures] . included several weight:small points 10 figures 999.9) with a bar code or a ten key. It decides, when it inputs by the bar code and it is read. Moreover, it is decided, when it inputs with a ten key and "ENT" key is depressed. There is two kinds of technique of deciding, when a weight is read the technique of depressing "ENT" key for a desired number after an input with a ten key and a desired number with a ten key and the following hazard mark is read by the bar code after an input. [0] is inputted when the input of a weight is unnecessary. Moreover, it is also possible to move cursor by "*" and "*" key.

(3) In addition, when the same hazard mark is inputted (a bar code and both ten key), tell you about in "the error message screen 1" (drawing 14) and audible tone which do not receive and are urged to cautions in that case.

[0039] 5. In Start:Capture Mode ([1:Vehicle] is Chosen on "Operating Selection Screen" (Drawing 8), and [1:Capture] is Chosen on Selection and "Mode Selection Screen" (Drawing 10)) of Input Screen 3(1) Display Item Display After choosing [2 :batch weight input] on a "weight input selection screen" (drawing 12), When "ENT" key is depressed, it inputs into the input area of a hazard mark number by the bar code by end [of a display]: "the input screen 3" (drawing 15). Or when "ENT" key is depressed after an input with a ten key, or when a "person-in-charge" key is depressed, the value the display did whose method:input is displayed by the left-justify (10 figures).

When it inputs by the bar code and it read and decides, it displays on a screen. When deciding a hazard mark number by "ENT" key, the input area on a screen is cleared and it will be in the status of the waiting for the following input. Moreover, when deciding by the trigger key of a bar code (when the following hazard mark is read by the bar code), the value of the following hazard mark is displayed on an input area. The screen image on a personal digital assistant is shown in drawing 15 .

(2) Carry out an applicable number (10 figures) input with a bar code or a ten key at an operation item input area. It decides, when it inputs by the bar code and it is read. Moreover, it is decided, when it inputs with a ten key and "ENT" key is depressed.

(3) In addition, when the same hazard mark is inputted (a bar code and both ten key), tell you about in "the error message screen 1" (drawing 14) and audible tone which do not receive and are urged to cautions in that case.

[0040] In Start:Capture Mode of Input Screen 4(1) Display Item Display, when "Weight" Key after Input is Depressed on "Input Screen 3" (Drawing 15), 6. After Inputting Number of Request to Input Area of Weight by End [of Display]: "Input Screen 4" (Drawing 16) with Ten Key, When "ENT" key is depressed, or when a "person-in-charge" key is depressed, a display weight can be displayed to 1 figure of decimal point in the value the display did whose method:input at a left-justify. Moreover, a display after inputting by the integral value displays the value of 1 figure of decimal point as 0 (example . input:1 -> display:1.0). The image of the screen on a personal digital assistant is shown in drawing 16 .

(2) Depress "ENT" key after an input for an applicable number (example [of a maximum of 5 figures] . included several small points 999.9) with a ten key to an operation item input area. [0] is inputted when there is no need for the input of a weight.

(3) In addition, a weight is integrated whenever it depresses "ENT" key after an input for an applicable number with a ten key to an input area.

[0041] 7. In Personal Digital Assistant (BHT) Which Chose [3:Carrying in] by Start [of Vehicle ID Input Screen (1) Display Item Display]: "Operating Selection Screen" (Drawing 8), and was Set as Carrying-in Mode After inputting an applicable number with a ten key on a "person-in-charge input-by-code screen" (drawing 9), When "ENT" key is depressed, it inputs into the input area of vehicle ID (satellite communication control unit ID) by the bar code by end [of a display]: "a vehicle ID input screen" (drawing 17). Or when "ENT" key is depressed after an input with a ten key, or when a "person-in-charge" key is depressed, the value the display did whose method:input is inputted by the display bar code by the left-justify and it read and decides, it displays on a screen. The screen image on a personal digital assistant is shown in drawing 17 .

(2) Input an applicable number (a maximum of 7 figures) into an operation item input area with a bar code or a ten key. It decides, when it inputs by the bar code and it is read. Moreover, it is decided, when it inputs with a ten key and "ENT" key is depressed.

[0042] 8. In Personal Digital Assistant (BHT) Which Chose [4:Processing] by Start [of Work Center Part Input Screen (1) Display Item Display]: "Operating Selection Screen" (Drawing 8), and was Set as Processing Mode After inputting an applicable number with a ten key on a "person-in-charge input-by-code screen" (drawing 9), When "ENT" key is depressed, or when a "work" key is depressed, it inputs into the input area for a work center by the bar code by end [of a display]: "a work center part input screen" (drawing 18). Or when "ENT" key is depressed after an input with a ten key, or when a "person-in-charge" key is depressed, the value the display did whose method:input is displayed by the left-justify (2 figures).

When it inputs by the bar code and it read and decides, it displays on a screen. The screen image on a personal digital assistant is shown in drawing 18 .

(2) Input an applicable number (2 figures) into an operation item input area with a bar code or a ten key. It decides, when it inputs by the bar code and it is read. Moreover, it is decided, when it inputs with a ten key and "ENT" key is depressed.

[0043] start [of an informational total 1. sum display screen 1(1) display item display]: "an operating selection screen" (drawing 8) -- [1:vehicle] -- selection -- and In the personal digital assistant (BHT) which chose [1:capture] on the "mode selection screen" (drawing 10), and was set as the capture mode When a "sum" key is depressed, after fixing the end:personal digital assistant (BHT) of a display on a personal digital assistant communication device, When a "transfer" key is depressed, when a "input" key is depressed, or when the key "in its duty" is depressed, the informational sum (the number, weight) the display did whose method:capture is displayed for every style of pacing in a manifesto. Authentication of a capture result is possible for a display by displaying for every style of pacing within a manifesto again for every manifesto, and scrolling a screen. When it can scroll, the arrow head (graphic) which shows the meaning of the upper and lower sides like the black trigonum and the reverse black trigonum (when two or more screens exist) is displayed. AUW is displayed to 1 figure of decimal point. The screen image on a personal digital assistant is shown in drawing 19 .

(2) Scroll a screen by depressing an operation item "**" key or "*" key.

(3) In addition, only the AUW when inputting a style-of-pacing code as [01] performs the following processing.

AUW = addition weight - (the 2kgx total number)

Ground: When the weight of a container (container) chooses [2 :batch weight input] on the "weight input selection screen" (drawing 12) which is 2kg, assign weight data for every hazard mark number, and store the average weight which broke AUW by the total number by 1 figure below decimal point. Moreover, when average weight cannot be businesslike in less than 1 figure of decimal point, the following processings are performed and the weight after calculation processing is stored for every hazard mark number. AUW:N (number expressed more than by the 1st place of decimal point) -- the total -- when referred to as number:M (integer), average

weight is defined as $n (=N/M)$ However, n shall omit the 2nd less than place of decimal point. Therefore, $a=N-n \times M$ (superabundance expressed more than by the 1st place below a decimal point)

It is expressed. Here, AUW N is as follows when a is set to b and c (the 1st place of decimal point [b : integer part, c :] section).

$$\begin{array}{rcl}
 n_1 & = & n + 1 \\
 n_2 & = & n + 1 \\
 & \cdot & \\
 & \cdot & \\
 & \cdot & \\
 n_b & = & n + 1 \\
 n_{b+1} & = & n + c \\
 n_{b+2} & = & n \\
 & \cdot & \\
 & \cdot & \\
 & \cdot & \\
 + \quad n_M & = & n \\
 \hline
 \text{合計} & & N
 \end{array}$$

($n_1, n_2, n_b \dots n_M$: weight stored for every hazard mark)

Therefore, as for the weight data for every hazard mark number, the above n_1-n_M is stored respectively.

[0044] The example using the concrete numeric value is shown. Example . It is $100 / 51 = 1.96$ at the time of AUW:100kg and the 51 total numbers.

Since it becomes, the value 1.9 which omitted the 2nd less than place of decimal point is first stored in all the numbers as a weight ($n = 1.9$). Moreover, since it is set to $100 - (1.9 \times 51) = 3.1$, the value 2.9 which added 1 at weight n at 1st - the 3rd piece serves as each weight, and the value 2 which added 0.1 to the 4th piece serves as a weight. When it collects above, among [all] 51 pieces, 2.9kg and the weight of the 4th piece are respectively set to 1.9kg by the weight of 1st - the 3rd piece, and the weight of 2kg and all the following remainder is stored.

[0045] 2. In Personal Digital Assistant (BHT) Set as Start:Transshipment of Sum Display Screen 2(1) Display Item Display, Taking Out, and Archive Mode When [sum" key is depressed, after fixing the end:personal digital assistant (BHT) of a display on a personal digital assistant communication device, When a "transfer" key is depressed, when a "input" key is depressed, or when a "person-in-charge" key is depressed, the screen image on a display personal digital assistant is shown for the total number of the container the display did whose end:input in drawing 20 .

(2) Depress an operation item "the sum" key.

[0046] 3. In Personal Digital Assistant (BHT) Which Chose [3:Carrying in] or [5:Last] by Start [of Sum Display Screen 3(1) Display Item Display]: "Operating Selection Screen" (Drawing 9), and was Set as Carrying-in Mode When a "sum" key is depressed, after fixing the end:personal digital assistant (BHT) of a display on a personal digital assistant communication device, When a "transfer" key is depressed, when a "input" key is depressed, or when a "person-in-charge" key is depressed, authentication of a result is possible by scrolling the display screen for the total number of the container the display did whose method:carrying in for every vehicle ID. When it can scroll, the image of the screen on a display personal digital assistant is shown for the arrow head (graphic) which shows the meaning of the upper and lower sides like the black trigonum (when two or more screens exist) in drawing 21 .

(2) Perform screen rolling by depressing an operation item "**" key or "**" key.

[0047] 4. In Personal Digital Assistant (BHT) Which Chose [4:Processing] by Start [of Sum Display Screen 4(1) Display Item Display]: "Operating Selection Screen" (Drawing 9), and was Set as Processing Mode When a "sum" key is depressed, after fixing the end:personal digital

assistant (BHT) of a display on a personal digital assistant communication device, When a "transfer" key is depressed, when a "input" key is depressed, or when a "person-in-charge" key is depressed, authentication of a result is possible by scrolling the display screen for the total number of the container the display did whose method:processing for a part for every work center. When it can scroll, the screen image on a display personal digital assistant is shown for the arrow head (graphic) which shows the meaning of the upper and lower sides like the black trigonum (when two or more screens exist) in drawing 22 .

(2) Scroll a screen by depressing an operation item "***" key or "*" key.

[0048] 5. a transfer -- (-- one --) -- a display -- an item -- a display -- start -- : -- a personal digital assistant (BHT) -- a personal digital assistant -- a communication device -- a top -- having fixed -- after -- " -- a transfer -- " -- a key -- having depressed -- the time -- a display -- an end -- : -- a personal digital assistant -- inside -- an information -- a personal digital assistant -- a communication device -- minding -- **** -- a display -- a terminal -- a transfer -- having completed -- the time --

(2) Depress a "transfer" key after fixing an operation item personal digital assistant (BHT) on a personal digital assistant communication device.

(3) In addition, a transfer is given top priority unless a personal digital assistant (BHT) is removed from a personal digital assistant communication device. If a personal digital assistant (BHT) is removed from a personal digital assistant communication device, a transfer will be interrupted temporarily, and again, if it puts on a personal digital assistant communication device, a transfer will be resumed. At this time, what was transmitted at once is not transmitted again.

[0049] 6. When Start:Transfer of Deletion (1) Display Item Display is Completed, Transfer of Information in End:Personal Digital Assistant of Display is Completed. When a batch deletion is completed, the method of a display : The screen image [under a deletion] and on a display personal digital assistant <A HREF -- = -- " -- / -- Tokujitu -- / -- tjitendrw -- . -- ipdl -- ? -- - N -- 0000 -- = -- 237 -- & -- N -- 0500 -- = -- one -- E -- _ -- N -- / -- ; -- > -- ?? -- six -- : -- : -- ? -- nine -- / -- / -- / -- & -- N -- 0001 -- = -- 58 -- & -- N -- 0552 -- = -- nine -- & -- N -- 0553 -- = -- 000032 -- " -- It is shown.

(2) he has no operation item -- (3) -- a deletion is given top priority unless a personal digital assistant (BHT) is removed from a personal digital assistant communication device in addition to this If a personal digital assistant (BHT) is removed from a personal digital assistant communication device, a deletion will be interrupted temporarily, and again, if it puts on a personal digital assistant communication device, a deletion will be resumed. After a deletion is completed, power goes out automatically.

[0050] 7. In addition, describe an explanation of functional each key of (1) key below.

Close [of "PW":power] and OFF are performed. It does not receive, unless it carries out long push (0.5 seconds or more), in case power is turned off.

It depresses, when correcting "C":input which eliminates at a time the value of 1 character of which "BS":input was done from a right end. Cursor moves to the head of an input area in that case.

It depresses, when going into "SF":management mode.

The sum of the eccrisis of which the "sum":input was done is displayed. End defined of an input is performed. However, when a key is depressed in the phase in the middle of an input, the item in the middle of an input is cleared, and is not decided.

A "transfer":transfer facility is started. However, unless a personal digital assistant is put on a personal digital assistant communication device, it does not function.

A weight / "work":weight - "The input screen 4" (drawing 16) is displayed. However, only when [2 :batch weight input] is chosen on a "weight input selection screen" (drawing 12), it functions.

It depresses, in case a part for a work-work center is changed. A "work center part input screen" (drawing 18) is displayed. However, it functions only at the time of a processing mode.

It depresses, in case a "style-of-pacing":style-of-pacing code is changed. "The input screen 1" (drawing 11) is displayed. However, in that case, cursor moves to the input area of a style-of-pacing code, and it will be in the status of the waiting for an input. Moreover, it is possible to

move cursor by "*" and "*" key. However, it functions only at the time of the capture mode. Moreover, when a key is depressed in the phase in the middle of an input, the item in the middle of an input is cleared.

"Input": each input screen is displayed. However, unless a "sum" key is depressed, it does not function.

"Person in charge": "a person-in-charge input-by-code screen" (drawing 9) is displayed. However, when a key is depressed in the phase in the middle of an input, the item in the middle of an input is cleared.

"Front screen" It returns to the screen on which even : worked before. It uses, when mainly correcting an input.

On a "*" "*" input screen (drawing 11 , 13), cursor is moved up and down. A screen is made to scroll up and down on the sum display screen (drawing 19 , 21, 22).

It depresses, when choosing or inputting a "1" - "0": numeric value.

It depresses, when inputting "-": decimal point.

"ENT": input is decided.

Each key is contrasted with the following keys on a personal digital assistant (BHT).

The "sum" = "M1", a weight / "work" = "M2" and "front screen" = "F1", "person-in-charge" = "F2" and "style of pacing" = "F5", "transfer" = "6" and "input" = "F7", "*" = "F4" and "*" = "F8."

A notes 1 "front screen" key functions on all the screens except all the modes before depressing a "transfer" key, and an "operating selection screen."

Notes 2 "F3" are empty.

[0051] (2) When operating the key of a buzzer personal digital assistant (BHT), make receptionist sound ("****"). Moreover, when unintended operation is performed, beeping ("****, ****, ****") is emitted.

(3) Store the date time second when inputting a manifesto cut-form number at the time of the input date capture mode. The date time second when inputting a person-in-charge code is stored at the time of transshipment, taking out, and the archive mode. The date time second when inputting vehicle ID is stored at the time of carrying in and the last mode. At the time of a processing mode, the date time second when inputting a work center part code is stored.

(4) Even if it depresses "PW" key in the middle of ***** functional work and power goes out, a personal digital assistant starts on a screen just before going out, when the status just before power goes out is memorized and power is next started.

(5) An auto-power-off functional transfer is completed and power goes out automatically after a batch deletion. However, unless the "transfer" key is pushed, it does not function.

(6) It is based on environmental setting BHT-5000 operation manual.

[0052] The functional specifications of a **** terminal are explained among the **** devices which perform the capture and management of the eccrisis in example 3 **** display terminal (REGIO:*****) functional-specifications SCMSystem.

A functional basic function (hardness, software) is based on a ***** operation manual.

Moreover, the information from a personal digital assistant is displayed as follows on a **** display terminal.

(1) After transmitting the information from a start:personal digital assistant on a display item display to a **** display terminal When [4 :transmitting history] is chosen in the "menu screen" (drawing 38) of a **** display terminal and the "menu" key of the end:**** display terminal of a display or a "correction" key is depressed, When time not to operate a key exceeds the set-up time, a required item is shown for method:each mode of every of a display, and the screen image on a display **** display terminal is shown in drawing 39 -45.

(2) It is based on an operation item ***** operation manual.

[0053] Example 4 message-delivery equipment specification message-delivery equipment is equipment which distributes the message which received from the **** terminal according to the use conditions in the system to the host computer which constitutes a visitor's operation managerial system etc., a server, or client equipment in an Omni-trucks network management system. Also in an eccrisis trace and a managerial system, the function for distributing a

manifesto information and a vehicle operation information suitable for manifesto management / total system or an operation managerial system shall be added to this distribution equipment. Positioning of the network-configuration message-delivery equipment of system configuration SCMSystem is shown in drawing 46 .

Manifesto management / total system (AS/400) and the operation managerial system (JQTRACS) in registration SCMSystem of a registration (1) account of a function 1. account are registered into an account master. One of the accounts (master x1, sub x1023) belonging to the account group into which these people are registered is assigned to these systems in advance. (2) In order to distribute correctly the registration manifesto information and operation information on an account class, register the class of whether the account is manifesto management / total system in the case of registration of an account. (Registration of an account class makes it possible only at the time of new registration of an account.)

2. Register with MCT master, using as an owner an account of the operation managerial system installed by the capture and the transport industry company to whom the vehicle belongs in principle the **** terminal (MCT) used by registration SCMSystem of a **** terminal. (However, it is not this limitation when an operation managerial system is not installed by capture and the transport industry company.)

3. Register the account which should be distributed about each information on the following which received from the registration **** terminal of a message-delivery point account.

(1) Register with a vehicle operation information:message-delivery point table. (The work status report except a manifesto information, and other messages.)

(2) Register with a vehicle positional-information:positional-information distribution place table.

4. Distribute the information received from the distribution **** terminal of a message according to the following conditions, respectively.

(1) The content of registration of a manifesto information:distribution place table is not concerned how, but distribute only to an account of manifesto management / total system.

(2) vehicle operation information: -- distribute to the account registered into the message-delivery point table corresponding to the concerned **** terminal (It does not distribute to manifesto management / total system.)

(3) vehicle positional-information: -- distribute to the account registered into the positional-information distribution place table corresponding to the concerned **** terminal (It does not distribute to manifesto management / total system.)

[0054] Although the protocol between protocol manifesto management between example 5 protocol 1. manifesto management / total system - message-delivery equipments / total system and message-delivery equipment is based on the customer interface protocol (CIP) which is the customer system interface which the homme nit rack system is preparing fundamentally, it shall define the following separately.

(1) Connection circuit kind Exception : General dedicated line (9600bps)

Synchronous system: Asynchronous (Async)

(2) Use only the following packets among the packets currently prepared by the packet class CIP.

- Sign-On and (Type=101) Sign-On Ack (Type=102) and Get Message and (Type=113) Return Message (Type=115, Subtype=005, Binary Date Type=005)

- No Return The information transmitted between protocol (1) information class manifesto management between Message, Sign-Off, and (Type=103) Sign-Off Ack (Type=104) (3) transceiver sequence 2. manifesto management / total system - personal digital assistants / total system and a personal digital assistant is only a manifesto information transmitted to manifesto management / total system from a personal digital assistant, and is divided into the following modalities by the data partition.

Data partition Transmitting agency ** capture information Capture transport vehicle ** transshipment information Capture transport vehicle ** archive information Storage-area ** taking-out information Capture transport vehicle ** carrying-in information Interval processing-plant ** processing information Interval processing-plant ** wrapup information There is no information transmitted to a personal digital assistant from ultimate-disposal place * manifesto

management / total system.

(2) It is transmitted to manifesto management / total system at any time from a transfer-timing personal digital assistant.

(3) The format by format above-mentioned each data partition is shown in Tables 2-5.

[0055]

[Table 2]

順番	レベル	項目名	形式	サイズ (バイト)	内容	備考
1	01	CIPヘッダ	ASCII		詳細略	CIP仕様書を参照
2	03	共通部				
3	05	JDUヘッダ	Binary	3	320000h	
4	05	データ区分	BCD	1	"01"=収集情報、"02"=積替情報、"03"=保管情報 "04"=搬出情報、"05"=搬入情報、"06"=処理情報 "07"=最終処理情報	
5	05	マニフェスト番号	BCD	5	有効10桁	
6	05	通信装置ID	BCD	4	有効7桁右詰	
7	05	担当者コード	BCD	3	有効5桁右詰	
8	05	収集時刻	BCD	7	西暦年月日時分秒(YYYYMMDDhhmmss)	
9	05	リザーブ		7	N U L L	
10	05	パケット順番	BCD	1	パケット分割数内の当該パケットの順番	
11	05	パケット分割数	BCD	1	1回の送信データのパケット分割総数	
12	03	個別部				

※データ区分毎に異なり、表 2-2 以降に記載。

[0056]

[Table 3]

順番	レベル	項目名	形式	サイズ (バイト)	内容	備考
12	03	個別部				
13	05	コンテナ情報				
14	07	荷姿	BCD	1	荷姿コード(2桁)	
15	07	ハザードラベル連番	BCD	5	有効10桁	
16	07	重量	BCD	3	0.1 K g 単位、小数点無し。	
17	07	荷姿	BCD	1	荷姿コード(2桁)	
18	07	ハザードラベル連番	BCD	5	有効10桁	
19	07	重量	BCD	3	0.1 K g 単位、小数点無し。	
		.				
		.				
		.				
		.				
20	07	荷姿	BCD	1	荷姿コード(2桁)	
21	07	ハザードラベル連番	BCD	5	有効10桁	
22	07	重量	BCD	3	0.1 K g 単位、小数点無し。	

[0057]

[Table 4]

順番	レベル	項目名	形式	サイズ (バイト)	内容	備考
12	03	個別部				
13	05	ハザードラベル連番	BCD	5	有効10桁	
14	05	ハザードラベル連番	BCD	5	有効10桁	
15	05	ハザードラベル連番	BCD	5	有効10桁	
		.				
		.				
		.				
16	05	ハザードラベル連番	BCD	5	有効10桁	
17	05	ハザードラベル連番	BCD	5	有効10桁	

[0058]

[Table 5]

順番	レベル	項目名	形式	サイズ (バイト)	内容	備考
12	03	個別部				
13	05	作業区分	BCD	1	作業区分コード(2桁)	
14	05	未使用		4	FFFFFFFFFh	
15	05	ハザードラベル連番	BCD	5	有効10桁	
16	05	ハザードラベル連番	BCD	5	有効10桁	
		.				
17	05	ハザードラベル連番	BCD	5	有効10桁	
18	05	エンドマーク		5	FFFFFFFFFh	
19	05	作業区分	BCD	1	作業区分コード(2桁)	
20	05	未使用		4	FFFFFFFFFh	
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22	05	ハザードラベル連番	BCD	5	有効10桁	
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23	05	ハザードラベル連番	BCD	5	有効10桁	
24	05	エンドマーク		5	FFFFFFFFFh	

[0059]

[Effect of the invention] The infectivity waste-treatment information system which can manage the infectivity eccrisis for every generation source of an issue place of business by the real weight can be offered. Data utilizable for fractionation of the infectivity eccrisis and the management on suppression of a discharge and the management of an issue place of business and the data for an administration report are offered, and a positional information can be grasped on a map on real time (finishing [Present where / carrying in under transport and to a processing plant], a positional information, a transport path of a processing end, etc.) the solid-state exception (a container or dolly) of the infectivity eccrisis of the generation source unit of an issue place of business. It is possible for this to solve problems, such as illegal abandonment.

[0060] Specially, the managed eccrisis may affect a human body and an environment and should be processed certainly and proper altogether. The special managed eccrisis including medical waste has put on the processing root of the exclusive use which was distinguished from other common eccrisis and which was managed particularly conventionally, and the waste control is performed the thing for which the delivery number of an enclosure container is checked in the case of capture and transport, or by checking the things generated in large quantities at once, such as scrap wood generated in a construction site, per dolly.

[0061] For example, by the exclusive cut-form which are the capture location and the occurrence location and which was indicated for every infirmity In each with the time of taking out from the capture location, and carrying in to an abandonment **** facility, can collate the number of an enclosure container per capture location, and while being conveyance according to intentionally or negligence It is enabled to discover this, though the container which enclosed the special managed eccrisis which should be carried out abandonment processing replaces another container which held other common eccrisis etc. When processing [un-fitness abandonment / loss of an enclosure container, illegal abandonment, etc.] based on the mistake at the time of conveyance is decreased and a mistake arises, this can be detected correctly and it can be coped with quickly.

[Translation done.]

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[An easy explanation of a drawing]

[Drawing 1] It is a drawing explaining the outline of SCMS system (abbreviation of Satellite Communication Management System).

[Drawing 2] It is a drawing explaining the outline of the operating flow of an issue place of business.

[Drawing 3] It is a drawing explaining the outline of the operating flow of capture and a transport industry company.

[Drawing 4] It is a drawing explaining the outline of the operating flow of an interval processor.

[Drawing 5] It is a drawing explaining the outline of the operating flow (manifesto) of a management pin center,large.

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[Drawing 7] It is the drawing in which the configuration of the **** device which performs capture and management of the eccrisis of an example 2 was shown.

[Drawing 8] It is the screen image of the operating selection screen at the time of choosing business on the personal digital assistant of an example 2.

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[Drawing 13] It is the screen image of the input screen 2 at the time of inputting an information on the personal digital assistant of an example 2.

[Drawing 14] It is the screen image of the error message screen 1 at the time of inputting an information on the personal digital assistant of an example 2.

[Drawing 15] It is the screen image of the input screen 3 at the time of inputting an information on the personal digital assistant of an example 2.

[Drawing 16] It is the screen image of the input screen 4 at the time of inputting an information on the personal digital assistant of an example 2.

[Drawing 17] It is the screen image of the vehicle ID input screen at the time of inputting an information on the personal digital assistant of an example 2.

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[Drawing 21] It is the screen image of the sum display screen 3 at the time of carrying out an

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[Drawing 22] It is the screen image of the sum display screen 4 at the time of carrying out an information total on the personal digital assistant of an example 2.

[Drawing 23] It is the screen image of the transfer screen view at the time of transmitting an information on the personal digital assistant of an example 2.

[Drawing 24] It is the screen image of the transfer screen at the time of eliminating an information on the personal digital assistant of an example 2.

[Drawing 25] It is the drawing in which the screen transition accompanied by [carry out a key press and] lowering on the personal digital assistant of an example 2 was shown.

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[Drawing 37] It is the drawing in which the flow chart of processing business using the personal digital assistant of an example 2 was shown.

[Drawing 38] It is the drawing in which the menu screen of the **** display terminal of an example 3 was shown.

[Drawing 39] It is the screen image of the capture mode transmitting history of the **** display terminal of an example 3.

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[Drawing 45] It is the screen image of the wrapup mode transmitting history of the **** display terminal of an example 3.

[Drawing 46] It is the drawing in which positioning of the network-configuration message-delivery equipment of SCMSystem of an example 4 was shown.

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最終頁に続く

(54) 【発明の名称】 通信衛星を使用した廃棄物処理情報システム

(57) 【要約】 (修正有)

【課題】 廃棄物の収集から廃棄処理までを容器または運搬車ごとに個別管理するようにした収集廃棄処理情報システムの提供。

【解決手段】 廃棄物処理の流れを衛星通信を使い情報の収集を行うことにより、排出事業者、収集運搬業者、中間処理業者間の廃棄物処理の管理を可能とし、収集した情報から必要な情報を速やかに作成し提供する廃棄物処理情報システムであって、バーコードラベルおよび通信衛星の端末に入力された該バーコードを含む関係情報に基づき必要事項が記入される積荷明細伝票を組み合わせて用いることを特徴とする通信衛星を使用した廃棄物処理情報システム。上記バーコードラベルは、予め収集場所および発生場所に関するデータを表すバーコードを表示した特別管理廃棄物用容器または運搬車に付すためのラベルである。バーコードの情報とともに計量した容器または運搬車ごとの重量のデータを人力する。

